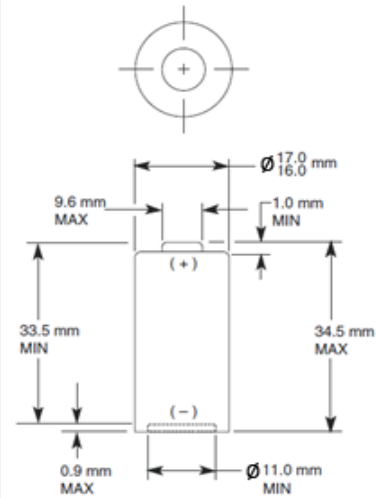


**LITHIUM-MANGANESE DIOXIDE BATTERY**



**Size: CR123A**



**Dimensions shown are IEC standards**

**KEY FEATURES**

- High voltage response, stable during most of the lifetime of the application
- Reliable Performance
- Low self-discharge with long operating life (<1% after 1 year of storage at + 20 °C)
- Excellent resistance to corrosion
- Designed to meet all major quality, safety and environment standards:
- Safety: IEC 60086-4
- Transport: UN 38.3
- RoHS and REACH compliance
- Quality: ISO 9001, Duracell World Class Continuous Program

**ELECTRICAL CHARACTERISTICS**

▪ Nominal capacity (100 Ω Cont., 2V cut-off)	1550 mAh
▪ Typical Voltage (at + 20 °C)	3.2-3.3 V
▪ Standard Continuous Discharge Current	20 mA
▪ Maximum Continuous Discharge Current	60 mA
▪ Maximum Abnormal Charge Current	25 mA
▪ Nominal Energy	4.35 Wh
▪ AC Impedance @ 1kHz	350 mΩ

**PHYSICAL CHARACTERISTICS**

▪ Typical weight	17.0 g (0.60 oz.)
▪ Li metal content	approx. 0.53g

**OPERATING & STORAGE CONDITIONS**

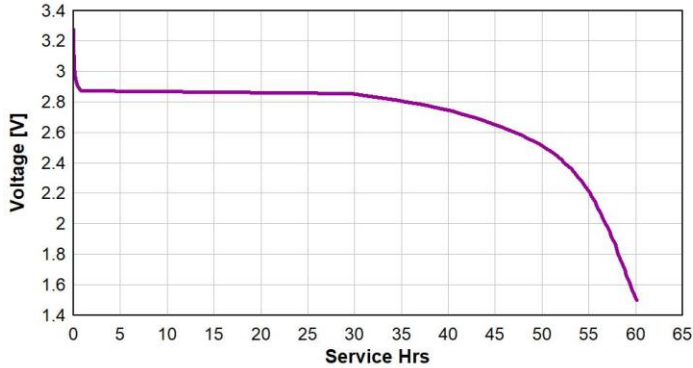
▪ Operating temperature range	-20°C to 75°C (-4°F to 167°F)
▪ Recommended Storage (storage area should be clean, cool, dry and ventilated)	5°C to 30°C (41°F to 86° F)

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

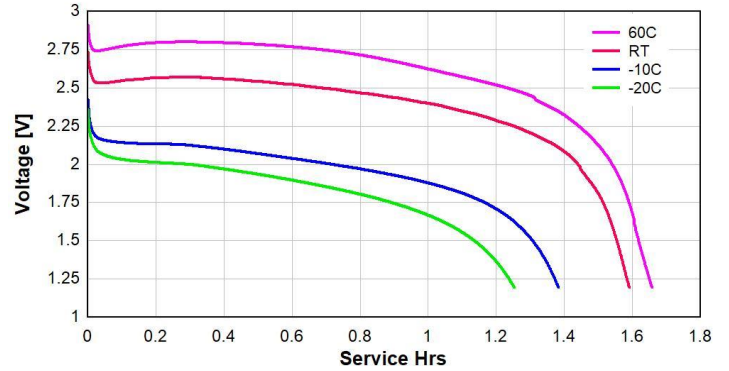
This data is subject to change. Performance information is typical. Contact Duracell for the latest information.

TYPICAL PERFORMANCE

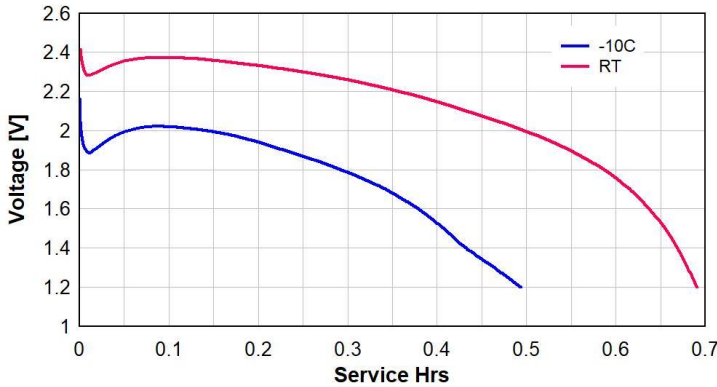
**Continuous Load Discharge**  
100 Ω continuous to 1.5V



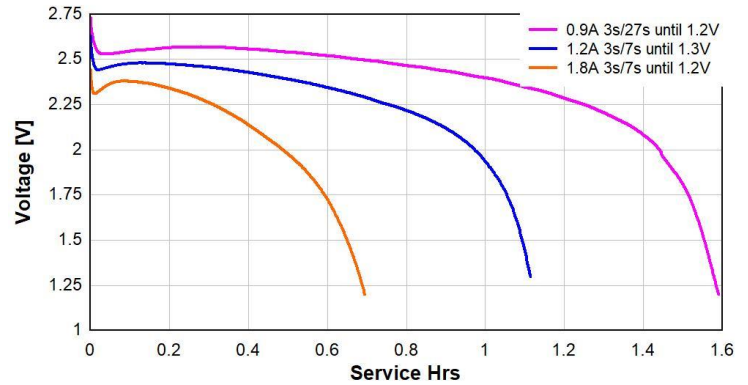
**Pulse Discharge at Various Temperatures**  
0.9 Amp 3s/27s 1.2V



**Pulse Discharge at Various Temperatures**  
1.8 Amp 3s/7s 1.2V



**Pulse Discharge**  
Multiple loads to 1.2V/1.3V Cut-off



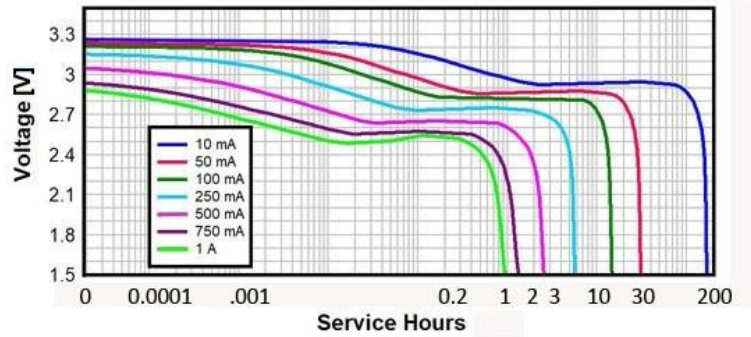
## TYPICAL APPLICATIONS

- Cameras
- Security devices (sensors, monitoring cameras)
- Smoke Detectors
- Wireless Sensors
- Door locks
- High Intensity Flashlights
- Laser Sights

## WARNING

- Fire, explosion and burn hazard
- Do not recharge, short circuit, crush, disassemble, heat above 100 °C (212 °F), incinerate, or expose contents to water

Continuous Discharge  
Various Loads



60086-4 © IEC:2007 EDITION 3.0

Test	Test designation	Observation
A	Altitude	Pass
B	Thermal cycling	Pass
C	Vibration	Pass
D	Shock	Pass
E	External short circuit	Pass
F	Impact	Pass
G	Crush	Pass
H	Forced discharge	Pass
I	Abnormal charging	Pass
J	Free fall	Pass
K	Thermal Abuse	Pass

Delivered capacity is dependent on the applied load, operating temperature and cut-off voltage. Please refer to the charts and discharge data shown for examples of the energy/service life that the battery will provide for various load conditions.

This data is subject to change. Performance information is typical. Contact Duracell for the latest information.